1a) (30 points) i) By drawing circuits, compare Wheatstone Bridge with ordinary voltage divider. ii) Name some application for Wheatstone Bridge. iii) Explain how do you balance Wheatstone Bridge both theoretically & experimentally.

1b) (20 points) i) Plot properly triggered & improperly triggered waveforms at display of oscilloscope. ii) What are the meanings of trigger level & trigger slope in oscilloscope?

1c) (20 points) By writing pertinent formulas & drawing proper figures explain how do you measure phase and gain of a periodic waveform using oscilloscope and Lissajous Figure.

1d) (30 points) i) Plot Bode plot (frequency response) for RL series circuit, if output is across R. ii) What type of filter is this circuit? iii) Write expression for its cut off frequency? iv) By drawing a circuit with proper connections of source & measuring devices explain the procedure to develop frequency response for this circuit.

2nd quiz
May 19, 2004